

Confidential Claim Retracted

AUTHORIZED BY:

DATE: 5/16/13

Hydrologic Evaluation
of Jackpile-Paguete Groundwater Levels

Statement of Work

Assess the adequacy of existing information on post-reclamation groundwater levels at the Jackpile-Paguete mine site. Recommend techniques and a range of hydrologic parameters for obtaining a serviceable forecast of future water-level conditions.

Items

1. Review and assess the validity of four existing reports (Anaconda, Argonne, BIA, USGS) on post-reclamation water levels. Report authors will be interviewed and the field site will be inspected.
2. Evaluate the existing data-base and advise as to additional field studies, if any, that could be completed in less than six-months and could significantly improve the model forecasts.
3. Recommend a reasonable range of values for input parameters in a groundwater model of reclaimed conditions at the Jackpile-Paguete mine. Comment on the aquifer geometry, permeability, storage, dispersivity, distribution coefficients, and flow quantities. The permeability and net recharge rates applicable to reclaimed conditions at the mine pits are to be specified in terms of a recommended standard case and reasonable maximum and minimum values. Indicate the level of confidence in the values provided.



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4. Advise as to any modifications that should be made to existing models before additional simulations or calculations are made with the input parameters recommended by the reviewer. Operate the existing models using the range of recommended parameter values and identify the sensitivity of the predicted long-term water levels.
5. Assess the level of confidence that may be attached to the best practicable calculation of future groundwater levels (feet of error) within the reclaimed pits using a) existing data and models b) data that could be collected in less than six-months and used in other models.
6. Advise as to alternative approaches that may aid in determining the quantity of or controlling the occurrence of toxic waters at the surface of the reclaimed pits.
7. Five copies of the reviewers findings and recommendations are to be provided to the BIA in the form of a brief report addressing the work items 1-6.
8. The consultant will present his findings and recommendations to the BIA and BLM and other parties at a final meeting in Albuquerque. The work product is not to be released without permission of BIA and BLM.
9. Work to be complete by August 15, 1984.
10. The reviewer will be available for participation in future expert testimony, although such testimony is not part of the present work.